



Smarter Solutions for Future Offshore Developments

12-14 September 2017

Royal Geographical Society, 1 Kensington Gore, Kensington, London SW7 2AR

Monday 11th September

18:00 Pre-conference registration and drinks evening held at RGS, London

Day 1 - Tuesday 12th September

08:40 Welcome, Introduction & Conference Highlights Toby Powell

Session 1 Geohazards & Geophysics - Mick Cook & Andy Hill

Keynote 1 A Phased and Integrated Data Interpretation Approach to Site Characterisation - S Thomas, Fugro

Utilisation of 3D Exploration Seismic Data to Optimise Site Investigations - a Case Study from the Timor Sea - D Sunderland, A Lane

Geohazards of the North West Shelf, Australia - P Hogan, I Finnie, S Tyler, J Hengesh

Use of 3D Exploration Geophysical Data for Early Stage Geohazard Assessment and Pipeline Route Feasibility - C Smith, S Thomas, S Langford, A Aslam

Adapting Seismic Surveys to Shallow Investigation of Offshore Bedrock - A Souf, S Pouliquen, M Chemin, T Denois

Geospatial Analysis for Geotechnical Design - D Rushton, L Jones, T Nott, MJ Rattley

Shallow Submarine Landslides as a Geohazard to Coastal Infrastructure; Examples from NW United Kingdom - G Carter, D Long, M Stoker, D Tappin, J Howe

Slope Stability Assessment of the Stones Development in the Gulf of Mexico - Y Choi, F Nadim, N Boylan, C Hadley, A Young, A Nicdoroda, B Saha

Has Anyone Seen the Crenulate? The Crenulate Reflection, Base Quaternary and the Aberdeen Ground Formation - F Buckley

Morning coffee 10:45 - 11:15

Plenary sessions continue

Session 2 Geotechnical Site Investigation & Design - Rich Metters & Hoang Nguyen

A New Approach for Cost-Effective Site Investigations for Offshore Wind Farms - A Adamopoulos, W Cleverly, L Costa

Near-real Time Geophysical and Geotechnical Data Integration: The Importance of Optimising the Collection of Data - D Harrison, C Smith, S Thomas, S Black, S Jegandan

Recommended Use of CPTU Application Classes According to ISO 19901-8: (2014) - T Lunne, R Santos, J Brink Clausen

The Influence of Insertion Process on Determining the Stiffness Characteristics of Chalk, Using Pre-bored, Self-bored and Pushed Pressuremeters - R Whittle, E Palix, D Donaghy

The Use of Non-destructive Core Logging and X-Ray Imaging Techniques to Resolve a Complex Engineering Geological Stratigraphy for a Planned Offshore Windfarm - J Shreeve, B Shreeve, J Pitel, E Palix, A Souf

Geotechnical Characterisation of Soils Containing a High Silt Content - P Moran, J Brianso Del Rio, M Orlowska, N Rae, M Finch

Parallel sessions begin

Anchors, Caissons & Offshore Wind - Alasdair Maconochie & Ana Ivanović

Support of Offshore Structures Using Helical Anchors - A Lutenegger

Inverse Chain Catenary in Weak Rock - K Routledge, P Allan

Site Investigation & Seabed Remediation to Avoid Sequential Jack-up Punch Through Failure - L Kellezi, L Xu, C Molina

An Experimental Study of the Embedment of a Dynamically Installed Anchor in Sand - S Chow, C O'Loughlin, C Gaudin, J Knappett, M Brown, J Lieng

Numerical Modelling of Jack-up Rig Spudcan Interaction with Normal Faults - K Oakes, M Brown, I Anastasopoulos

A State of the Art Design Approach for Assessing Cyclic Loading on Permanent Mooring Anchors in Carbonate Sediments - C Erbrich, D O'Driscoll, S Lam, S Frankenmolen

Field Testing and Numerical Back Analysis of Under-Pressure Installation and Over-Pressure Extraction of a Suction Caisson in a Layered Soil - L Lorenti, B Lehane



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Plenary sessions continue

Experimental Study on Effect of Stress Relief and Gas Exsolution on Sample Quality - S Yang, T Lunne,
K Andersen, G Yetginer

Influence of Pre-Shearing on the Drained Strength and Stiffness of a Marine North Sea Sand - VS Quinteros, T Lunne, R Dyvik , L Krogh, R Bøgelund-Pedersen, S Bøtker-Rasmussen

CPT Based Design Procedure for Installation Torque Prediction for Screw Piles Installed in Sand - T Al-Baghdadi, C Davidson, M Brown, J Knappett, A Brennan, C Augarde, W Coombs, L Wang, D Richards, A Blake

Large Diameter Driven Piles in the Bolders Bank Formation: a Case Study - G Giuliani, S Davies, M Vaziri

Parallel sessions continue

Simplified Model for the Stiffness of Suction Caisson Foundations Under 6 DOF Loading - S Suryasentana, B Byrne, H Burd, A Shonberg

Penetration Resistance of Suction Caissons in Layered Soil - a Case Study - S Panayides, T Powell, K Schrøder

Critical Suction Pressures During Installation of Suction Caissons in Sand - S Panagoulias, B van Dijk, T Drummen, A Askarinejad, F Pisanò

Integrated Design Method of Monopile Foundations for Offshore Wind Turbines using a Kinematic Hardening Soil Model - W Beuckelaers, H Burd, G Houlsby

Application of a Numerical-based Design Method for Laterally Loaded Monopiles in Layered Soils - Y He, B Byrne, H Burd

Pile Driving Assessments, Practical Developments in Reliability for Offshore Wind Farms - R McLean, A Lambrughi, S Manceau

Predicting Long Term Performance of OWT Foundation using Cyclic Simple Shear Apparatus and DEM Simulations - L Cui, S Bhattacharya, G Nikitas, J Vimalan

Assessment of Pile Length Criteria for Monopile Foundations - M Achmus, M Terceros, F tom Wörden, K Thieken

Lunch 13:00 - 14:00

Session 3 Advanced Soil Characterisation - Andy Barwise & Elisabeth Palix

Keynote 2 Substrate Controls on the Life-Time Performance of Marine HV Cables - Professor J Dix, University of Southampton

Scour and Erosion Effects in Offshore Geotechnics - H Luger, G Hoffmans, T Raaijmakers, A Borges Rodrigez, P Watson, H Krisdani, S Leckie, R Whitehouse, S Draper, B Spinewine

On the Use of Constitutive Models in Advanced Numerical Analyses of Offshore Structures - A Grammatikopoulou, F Schroeder, A Brosse, K Andersen, D Potts

A Framework for Cyclic P-Y Curves in Clay and Application to Pile Design in GoM - Y Zhang, K H Andersen, P Jeanjean, A Mirdamadi, A Gundersen, H Jostad

3D Finite Element Modelling of the Cyclic Behaviour of Offshore Gravity Base Foundations on Sands - H Dingle, C Humpheson, A Pillai

Laboratory Testing Based Design Method for Assessing Cyclic Response of Driven Piles in Chalk - P Houlston, S Manceau, A Benson, I Alobaidi, R Evans, M Pacheco Andrade, J Meincke

Normalized Modulus Reduction and Material Damping Ratio Curves for Bay of Campeche Clay - V Taboada, V Dantal, D Cruz Roque, F Flores Lopez, R Vazquez Monroy, P Barrera Nabor

Afternoon break 15:30 - 16:00

Session 4 Suction Installed Foundations - Mark Finch & David Cathie

Centrifuge Testing and Numerical Modelling of a Suction Caisson in a Layered Soil - Static and Cyclic Response - L Lorenti, B Lehane

Installation of Suction Anchors in Layered Soils - M Saue, E Solhjell, P Aas, K Andersen

Suction Pile Foundations: Kinematic Soil-Structure Interaction - D Bertalot, O Zanoli, D Morandi, E Parker

Physical Modelling of Suction Bucket Installation and Response Under Long-Term Cyclic Loading - B Bienen, C O'Loughlin, F Zhu

Multi-Compartment Suction Foundations for Offshore Structures - L Tapper, C Humpheson, G Jackson

Successful Installation of Large Suction Caissons and Driven Piles in Carbonate Soils - S Frankenmolen, C Erbrich, D O'Driscoll, R Fearon

18:00-19:30 4th Bramlette McClelland Lecture - Understanding the Full Potential of an Integrated Geoscience Study Alan Young





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Day 2 - Wednesday 13th September

Session 5 Pile Design and Installation - Ray Hobbs & Jean Louis Colliat Dangus

Keynote 3 A Framework for Monotonic P-Y Curves in Clays - P Jeanjean, Y Zhang, A Zakeri, KH Andersen, R Gilbert and A Senanayake

Upper Bound Plastic Limit Analyses of Laterally Loaded Piles in Stratified Soils - F Grajales-Saavedra, C Aubeny, D Drew, P Jeanjean, A Zakeri

Investigation of the Effects of Pile Modelling on Jacket Structural Analyses Results - N Hamdan, N Morgan, D Christie, F Hosseini

Finite Element Analysis of Soil Plug Behaviour Within Open-Ended Piles - T Joseph, G Houlsby, H Burd, P Taylor

Laboratory Test Predictions of the Cyclic Axial Resistance of a Pile Driven in North Sea Soils - M Rattley, L Costa, R Jardine, W Cleverly

Large Scale Offshore Static Pile Tests: Practicality and Benefits - P Barbosa, M Geduhn, R Jardine, F Schroeder

Driven Pile Design Method for Weak Rock - J Irvine, V Terente, I Torres, J Davidson, C Jaeck

Engineering Behaviour of Mercia Mudstone for Offshore Pile Design - A Sultaniya, M Rattley, C Erbrich, S Lam, P Gibbs, A Shajarati

Re-Evaluation of Pile Driveability in Chalk - J Dührkop, J Rieser, S Maretzki

Installation Response of 5.5m Diameter Anchor Piles in Carbonate Soils - the Ichthys development - N Boylan, A Roux, J Colliat, A Sato

Driving the Moho Nord TLP Piles and Conductors in Deepwater Offshore Congo - J Colliat

Morning coffee 10:40 - 11:10

Plenary sessions continue

A Methodology for the Probabilistic Assessment of Pile Refusal - B Stuyts, G Ellery, J Davidson, I Torres, M Rose

An Integrated Jacket Pile Capacity Reassessment to Support Life Extension and new Build Activities for a Mature North Sea Oil Field Project - R Argiolas, R Jardine

Session 6 Subsea Shallow Foundations - Thomas Langford & Susan Gourvenec

Extraction of Piles and Shallow Foundations - E Heins, Jürgen Grabe

Effect of Foundation Flexibility on Consolidation Gains in Undrained Capacity - XFeng, S Gourvenec

Model Testing Of Recovery Loads For Decommissioning Skirted Subsea Structures AJ Brennan, M Brown, J Knappett, C McMillan, H Aldaikh, A Small, D Morrow

In-situ Tests and Numerical Analyses for Bearing Capacity of Shallow Foundation on Rock-Fill Material - A Mirdamadi, H Pederstad, A Rahim and K Tronstad

A Probabilistic Investigation of Primary Consolidation Settlements of Subsea Structures - M Silva, L Begaj and A Amodio

Centrifuge Tests on a Sliding Foundation: Impact of the Undrained Cohesion Profile - M Blanc, L Thorel, R Wallerand

Validation of a Surface Foundation Macro Model by Laboratory Testing - J Tistel, G Eiksund, G Grimstad

Parallel sessions begin

Site Investigation, Site Characterisation & Foundation Performance - TBC

Seafloor Response to Large Volcanic Activity and Geohazard Implications in the Naples Bay, Southern Italy - C Violante, M Sacchi, V Spiess, L Steinmann

Scour Effect Around Suction Bucket Foundations and Monopiles in Clay - Y Shin, N Sivasithamparam, T Jung, H Wang, S Song, S Park, J Sim

Seabed Investigations by a Novel Hybrid of Vessel-Based and Seafloor-Based Drilling Techniques - P Looijen, J Peuchen

Offshore Characterisation of Extremely Soft Sediments by Free Fall Penetrometer - J Peuchen, P Looijen, N Stark

Aged Undrained Shear Strength of Remoulded Clays - A Lutenegger

Application of a Memory Surface Model in Predicting the Sand Response under Cyclic Conditions - R Corti, A Diambra

Undrained Shear Strength of Offshore Sediments from Portable Free Fall Penetrometers: Theory, Field Observations, & Numerical Simulations - N Stark, K Ziotopoulou

A Practical Constitutive Model for Offshore Foundation Problems Involving Dense Sands in Partially Drained to Undrained Conditions - S Whyte, M Rattley, C Erbrich, H Burd, C Martin

Variations and Limitations of Curve Fitting Methods for Small Strain Shear Modulus in the ICP Design Methodology - T Masters, M Senthilkumar, G Woodyard



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Plenary sessions continue

Whole-Life Assessment of Subsea Shallow Foundation Capacity - S Gourvenec, S Stanier, D White, N Morgan, M Banimahd, J Chen

The Undrained Capacity of Shallow Two-Foundation Systems Acting in Consort Under Three-Dimensional Loading -S Abyaneh, A Maconochie, J Oliphant

Hybrid Subsea Foundations – From Research to Project Application - R Wallerand, M Cafi, D Kay, P Dimmock, M Randolph

Parallel sessions continue

Seismic Design of Subsea Structures: Linear Time-History vs Response Spectrum Analyses and Practice Oriented Considerations - M Cademartori, D Bertalot, M Molinari, O Zanoli, A Raggio, P Basso

Subsea Foundations on Liquefiable Seabed - H Suroor

Numerical Simulation of Suction Bucket Under Vertical Tension Loading - K Shen, Y Zhang, R Klinkvort, H Sturm, H Jostad, N Sivasithamparam, Z Guo

Multi-Laboratory Assessments of Cyclic Soil Behaviour - N Ramsey, S Sharma, FLee

Automation and Control in a Submarine Drill Rig - A Arriaga, M Devincenzi, N Pérez, A Deu, M Arroyo

Common Pitfalls of Pile Driving Resistance Analysis – a Case Study of the Wikinger Offshore Windfarm - RM Buckley, S Kontoe, R Jardine, M Maron, F Schroeder, P Barbosa

Synthetic CPTs from Intelligent Ground Models based on the Integration of Geology, Geotechnics and Geophysics as a Tool for Conceptual Foundation Design and Soil Investigation Planning - C Forsberg, T Lunne, M Vanneste, L James, T Tjelta, A Barwise, C Duffy

Lunch 13:10 - 14:10

14:10 - 15:20 Student Poster Presentations

Session 7 Pipelines - Peter Allan & Dave White

Effect of Through-life Changes in Soil Strength and Axial Pipe-Seabed Resistance for HPHT Pipeline Design - H Low, M Ramm, M Bransby, D White, Z Westgate

Evaluation of Soil Stiffness Support at Shoulder for Free-span Pipeline - E Kencana, C Leung, Y Chow

Experimental and Numerical Study of Pipelines Shallowly Embedded in Sands - X Zhao, Y Luan, C Zhang, Y Tian, X Huang

Modelling of Pipeline and Cable Flotation Conditions - T Bizzotto, M Brown, A Brennan, T Powell, H Chandler

Optimised Backfill Design for Preventing Pipeline Flotation - C Erbrich, H Zhou

Active Pressure of Rock Berms on Pipelines - D Carneiro, A Borges Rodriguez, R Klinkvort, A Worren, M Banimahd

Risk Based Approach for Offshore Cable Burial Depth Assessment - H Doan, A Puech, A Savadogo, Dr L MacNay

Hydraulic Stability of Cable Crossing Rock Berms in Combined Waves and Current - A Roulund, S Larsen, R Whitehouse, N Crossouard

Afternoon break 15:30 - 16:00

Session 8 EAGE - John Arthur & Eric Cauquil

An Ultra-High-Resolution 3D Marine Seismic System for Detailed Site Investigation - O Monrigal, I de Jong, H Duarte

Advanced Processing for UHR3D Shallow Marine Seismic Surveys - H Duarte, N Wardell, O Monrigal

Tuning, Interference and False Shallow Gas Signatures in Geohazard Interpretations: Beyond the "λ/4" rule - B Barrett, D Huws, A Booth, Ø Wergeland, J Green

A Petrophysical Approach to the Investigation of Shallow Marine Geology - F Buckley, L Cottee State of the Art Remote Characterisation of Shallow Marine Sediments: The Road to a Fully Integrated Solution - M Vardy, M Vanneste, C Forsberg, M Clare

How Understanding Past Landscapes Might Inform Present-Day Site Investigations: A Case Study From Dogger Bank, Southern Central North Sea - C Cotterill, E Phillips, L James, C Forsberg, T Tjelta

Identifying and Mitigating Against Potential Seafloor and Shallow Drilling Hazards at a Complex Gulf of Mexico Deepwater Site Using HR3D Seismic and AUV Data - K Kassarie, S Mitchell, M Albertin, A Hill, R Carney

Direct Monitoring of Active Geohazards: Emerging Geophysical Tools for Deep-Water Assessments - M Clare, M Vardy, M Cartigny, P Talling, M Himsworth, J Dix, J Harris, R Whitehouse, M Belal

19:00 Conference Dinner at the Natural History Museum, Cromwell Rd, Kensington, London SW7 5BD After Dinner Address by James McCallum





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Day 3 - Thursday 14th September

Session 9 Mooring Systems - Julian Osborne & Sarah Elkhatib

Numeral Study of Spudcans Penetrating Near Existing Footprints During Jack-Ups' Reinstallation - L Yu, J Li, J Liu, L Ren, X Wang

Numerical Analyses to Determine the Failure Envelope of a Cross-Shaped Plate Foundation - E Nicolini, M Castelletti

A New Testing Method to Estimate Anchor Trajectory Based on Modified Chain Profile predictions - J Liu, C Han, L Yu, W Zhao

Effectiveness of Skirted Spudcans in Mitigating Punch-Through in Sand-Over-Clay Deposits - J Lee, Y Kim, M Hossain, M Cassidy, Y Hu, J Sim

Insights into the Mechanisms of Anchor Chain Trench Formation - K Sassi, MY-H Kuo, H Versteele, D Cathie, S Zehzouh

Anchor Chain Trenching - Numerical Simulation of Progressive Erosion - H Versteele, MY-H Kuo, D Cathie, K Sassi, S Zehzouh

Plate Anchors for Mooring Floating Facilities - A View Towards Unlocking Cost and Risk Benefits - C O'Loughlin, D White, S Stanier

Transition Depths for Deep Circular Anchors in Saturated Sand - M Rasulo, J Schneider, J Newgard, CP Aubeny

Morning coffee 09:50 - 10:20

Plenary sessions continue

Session 10 Wind Turbine Foundations - Andrew Benson & Morten Liingaard

Keynote 4 PISA: New Design Methods for Offshore Wind Turbine Monopiles - B Byrne, R McAdam, H Burd, G Houlsby, C Martin, W Beuckelaers, L Zdravkovic, D Taborda, D Potts, R Jardine, E Ushev, T Liu, D Abadias, K Gavin, D Igoe, P Doherty, J Skov Gretlund, M Andrade, A Wood, F Schroeder, S Turner, M Plummer

On the Implications of Advanced Monopile Design Methodologies in Offshore Wind Turbines - D Abadias, L Zdravkovic, D Taborda, D Potts

Modelling of Monopile Response to Cyclic Lateral Loading in Sand - C Abadie, B Byrne, G Houlsby

Dynamic and Cyclic Pile-Soil Response Curves for Monopile Design - P Peralta, J Ballard, M Rattley, C Erbrich

Consequences of p-y Curve Selection for Monopile Design for Offshore Wind Turbines - S Sørensen, A Augustesen, C Leth, M Østergaard, M Møller

Efficient Pile Design for Offshore Wind Farm Jacket Structures - S Manceau, A Benson

Large-Scale Experiments and Load Transfer Analysis of Piled Foundations Supporting an Offshore Wind Turbine - A Foglia, M Wefer, F Forni

Reliability Based Assessment of Rock Socket Piles at St Brieuc Offshore Wind Farm - A Bertossa

Parallel sessions begin

Piling, Pipelines & Case Studies - Neil Morgan

Analysis of a Torsionally Loaded Pile Considering the Nonlinear Distribution of the Soil Shear Modulus - Z Xin-jun, X Yang-yang, X Dong-bin

Effects of Cyclic Axial Loading Sequences on Piles in Sand: Centrifuge Modelling - M Blanc, L Thorel

Robust Analyses and Acceptance of Driven Piles for Offshore Structures - N Morgan, D Christie, N Hamdan

Evaluation of p-y Approaches for Piles in Soft Clay - M Terceros, M Achmus, K Thieken

Mud Mat Perforation – Geotechnical Serviceability Assessment of Foundation Performance On Soft Soil - A Ulvestad, S Giese, A Stordal

Limit Analysis Of Hybrid Subsea Foundations Under Horizontal and Torsional Loading - H Dunne, C Martin, R Wallerand

Hybrid Foundation for Temporary Support of Fixed Tripod or Jacket Structure - T Drummen, B van Dijk, J Peuchen

Prediction of Retrieval Loads for Shallow Foundations in Very Soft Clay - D Kay, N Dale-Lace, B Vignaud, R Wallerand

Model Testing of Suction Bucket Foundations Under Tensile Loading in Non-Cohesive Soil - P Gütz, M Achmus, K Thieken, C Schröder

Application of the Bathymetric Position Index Method (BPI) for the Purpose of Defining a Reference Seabed Level for Cable Burial - M Secomandi, E Jones, V Terente, R Comrie, M Owen



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Plenary sessions continue

Prediction of Drilling Rates for Large Diameter Monopiles - F Vantomme, M Y-H. Kuo,
D Cathie, T Denois

Back-analyses of Monopile Installation in North Sea Sands - S Holm, R Klinkvort, N Boylan, W-E Semm, K Price, C Clausen

Parallel sessions continue

Improvement Of Seabed Cable Plough Tow Force Prediction Models - S Robinson, M Brown, A Brennan, M Cortis, C Augarde, W Coombs

Axial Behaviour of Partially Embedded Subsea Pipelines Using Numerical Analysis - M Senthilkumar, J Kodikara, P Rajeev, N Thusyanthan

Development of 3D Ground Models for Offshore Wind Farms - Rhiannon OWF, J Reynolds, L Catt, AB Fernandes, P Knight

Archaeological Palaeolandscape Assessment for Marine Offshore Development Using Seismic and Geotechnical Data - The UK Experience - D Jones, E Salter

Lunch 12:20 - 13:20

Session 11 Geotechnical Design Studies - Fiona Chow & Ian Finnie

Keynote 5 Characteristics of Unified Databases for Driven Piles - BM Lehane, JK Lim, P Carotenuto, F Nadim, S Lacasse, RJ Jardine and BFJ van Dijk

The New ISO 19901-4 Standard for Geotechnical and Foundation Design - JL Colliat, S Gourvenec, N Morgan, E Clukey, K Schröder, R Ruinen, SLacasse, R Little

Field Studies on the Axial Capacity of Small Diameter Piles and Ageing Effects in Sands - R Carroll, P Carotenuto, C Dano, I Salama, M Silva, K Gavin, R Jardine

Effect of Sampling on Behaviour of Weathered Chalk with Flints - E Palix, B Souviat, R Muhammed

Field Investigations into the Axial Loading Response of Displacement Piles in Chalk - R Buckley, R Jardine, S Kontoe, T Liu, E Ushev, B Lehane, T Pine, F Schroeder, P Barbosa

Geotechnical Design of Anchor Piles for Ichthys CPF and FPSO - C Erbrich, S Lam, H Zhu, A Derache, A Sato, A Al-Showaiter

Hold-Back Anchor Piles with Free-Fall Potential on the Australian North West Shelf - M Banimahd, F Chow, S Tyler, M Senders, R Stewart-Wynne

Investigating Drag Anchor Behaviour in Calcareous Materials on the North West Shelf of Australia - F Chow, M Banimahd, S Tyler, A Rathmell, M Ostojic, B Holland

Remote Intelligent Geotechnical Seabed Surveys – Technology Emerging from the RIGSS JIP - D White, S Stanier, C O'Loughlin, S Chow, M Randolph, S Draper, H Mohr, J Morton, J Peuchen, R Fearon, A Roux and F Chow

Afternoon break 15:10 - 15:40

Session 12 Case Studies - Richard Salisbury & Alan Young

Geological, Geophysical and Geotechnical Integration for Cable Burial Assessment - C Smith, R Haynes, S Thomas

Deterministic vs Probabilistic Liquefaction Assessment - A Case Study - O Zanoli, A Murianni, P Poggi, G Scelsi

Johan Sverdrup - Assessment of Soil Material Behaviour and Strength Properties for the Shallow Silt Layer - E Solhjell, R Carroll, S Strandvik, G Håland

Geotechnical Aspects of the Design and Construction of the Malampaya Depletion Compression Platform - L Lorenti

Integration of Geophysical, Geological and Geotechnical Data for Offshore Wind Farms - East Anglia One OWF, Southern North Sea, A Case History - J Reynolds, L Catt, G Salaün, P Knight, W Cleverly, L Costa

BP Clair Ridge: Independent Foundation Assurance For The Capacity Of Driven Piles In Very Hard Soils - K Hampson, T Evans, R Jardine, P Moran, B Mackenzie, M Rattley